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1. **PLAPACK Parallel Linear Algebra Package Design Overview**  
Alpatov, P.; Baker, G.; Edwards, H.C.; Gunnels, J.; Morrow, G.; Overfelt, J.; van de Geijn, R.;  
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2. **An Overview of the BlueGene/L Supercomputer**  
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3. **Large-Scale First-Principles Molecular Dynamics simulations on the BlueGene/L Platform using the Qbox code**  
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4. **A high-performance SIMD floating point unit for BlueGene/L: architecture, compilation, and algorithm design**  
Bachega, L.; Siddhartha Chatterjee; Dockser, K.A.; Gunnels, J.A.; Manish Gupta; Gustavson,

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6. **Fault-tolerant high-performance matrix multiplication: theory and practice**  
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9. **Genetic algorithms and simulated annealing for gene mapping**  
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Brayton, R.K.; Gustavson, F.G.; Hachtel, G.D.;  
[Proceedings of the IEEE](#)  
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- ☐ 2. **The Sparse Tableau Approach to Network Analysis and Design**  
Hachtel, G.; Brayton, R.; Gustavson, F.;  
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- ☐ 3. **Fast algorithms for rational Hermite approximation and solution of Toeplitz systems**  
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- ☐ 4. **An Overview of the BlueGene/L Supercomputer**  
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- ┐ **13. An active DC link filter for AC-AC converters**  
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S7	7	S6 and @ad<"20030929"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/10 16:56



# Inventor Information for 10/671935

Inventor Name	City	State/Country
GUSTAVSON, FRED GEHRUNG	BRIARCLIFF MANOR	NEW YORK
GUNNELS, JOHN A.	MT. KISCO	NEW YORK

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Your Search was:

Last Name = GUSTAVSON

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">09918814</a>	<a href="#">6842765</a>	150	07/31/2001	PROCESSOR DESIGN FOR EXTENDED-PRECISION ARITHMETIC	GUSTAVSON, FRED G.
<a href="#">08217533</a>	Not Issued	161	03/24/1994	NUMERICALLY INTENSIVE COMPUTER ACCELERATOR	GUSTAVSON, FRED G.
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<a href="#">08313971</a>	<a href="#">5513366</a>	150	09/28/1994	METHOD AND SYSTEM FOR DYNAMICALLY RECONFIGURING A REGISTER FILE IN A VECTOR PROCESSOR	GUSTAVSON, FRED G.
<a href="#">08354402</a>	<a href="#">5563818</a>	150	12/12/1994	A METHOD AND SYSTEM FOR PERFORMING FLOATING-POINT DIVISION USING SELECTED APPROXIMATION VALUES	GUSTAVSON, FRED G.
<a href="#">08368171</a>	Not Issued	166	01/04/1995	METHOD AND SYSTEM FOR ADDRESSING REGISTERS IN A DATA PROCESSING UNIT IN AN INDEXED ADDRESSING MODE	GUSTAVSON, FRED G.
<a href="#">08368172</a>	<a href="#">5680338</a>	250	01/04/1995	METHOD AND SYSTEM FOR VECTOR PROCESSING UTILIZING SELECTED VECTOR ELEMENTS	GUSTAVSON, FRED G.
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<a href="#">08589770</a>	<a href="#">5751619</a>	250	01/22/1996	RECURRENT ADRITHMETICAL COMPUTATION USING CARRY-SAVE ARITHMETIC	GUSTAVSON, FRED G.

<u>08619456</u>	<u>5825677</u>	250	03/20/1996	NUMERICALLY INTENSIVE COMPUTER ACCELERATOR	GUSTAVSON, FRED G.
<u>08687825</u>	<u>5832533</u>	250	07/26/1996	METHOD AND SYSTEM FOR ADDRESSING REGISTERS IN A DATA PROCESSING UNIT IN AN INDEXED ADDRESSING MODE	GUSTAVSON, FRED G.
<u>10671887</u>	Not Issued	71	09/29/2003	Method and structure for producing high performance linear algebra routines using composite blocking based on L1 cache size	GUSTAVSON, FRED GEHRUNG
<u>10671888</u>	Not Issued	71	09/29/2003	Method and structure for producing high performance linear algebra routines using register block data format routines	GUSTAVSON, FRED GEHRUNG
<u>10671889</u>	Not Issued	41	09/29/2003	Method and structure for producing high performance linear algebra routines using level 3 prefetching for kernel routines	GUSTAVSON, FRED GEHRUNG
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<u>10671934</u>	Not Issued	71	09/29/2003	Method and structure for producing high performance linear algebra routines using streaming	GUSTAVSON, FRED GEHRUNG
<u>10671935</u>	Not Issued	30	09/29/2003	Method and structure for producing high performance linear algebra routines using a selectable one of six possible level 3 L1 kernel routines	GUSTAVSON, FRED GEHRUNG
<u>10671937</u>	Not Issued	41	09/29/2003	Method and structure for producing high performance linear algebra routines using preloading of floating point registers	GUSTAVSON, FRED GEHRUNG
<u>11035902</u>	Not Issued	30	01/14/2005	Method and structure for a generalized cache-register file interface with data restructuring methods for multiple cache levels and hardware pre-fetching	GUSTAVSON, FRED GEHRUNG
<u>11035933</u>	Not Issued	30	01/14/2005	Method and structure for cache aware transposition via rectangular subsections	GUSTAVSON, FRED GEHRUNG
<u>11039907</u>	Not Issued	30	01/24/2005	Method and structure for algorithmic overlap in parallel processing for exploitation when load imbalance is dynamic and predictable	GUSTAVSON, FRED GEHRUNG
<u>11045354</u>	Not Issued	25	01/31/2005	Method and structure for a hybrid full- packed storage format as a single rectangular format data structure	GUSTAVSON, FRED GEHRUNG
<u>11050945</u>	Not Issued	30	02/07/2005	System and method for detecting a faulty object in a system	GUSTAVSON, FRED GEHRUNG
<u>11052877</u>	Not Issued	71	02/09/2005	System and method for algorithmic cache- bypass	GUSTAVSON, FRED GEHRUNG
<u>11133254</u>	Not Issued	25	05/20/2005	Method and structure for improving processing efficiency in parallel processing machines for rectangular and triangular	GUSTAVSON, FRED GEHRUNG

				matrix routines	
<u>11328344</u>	Not Issued	30	01/09/2006	Method and structure for an improved data reformatting procedure	GUSTAVSON, FRED GEHRUNG

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First Name = JOHN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#">10671887</a>	Not Issued	71	09/29/2003	Method and structure for producing high performance linear algebra routines using composite blocking based on L1 cache size	GUNNELS, JOHN A.
<a href="#">10671888</a>	Not Issued	71	09/29/2003	Method and structure for producing high performance linear algebra routines using register block data format routines	GUNNELS, JOHN A.
<a href="#">10671889</a>	Not Issued	41	09/29/2003	Method and structure for producing high performance linear algebra routines using level 3 prefetching for kernel routines	GUNNELS, JOHN A.
<a href="#">10671933</a>	Not Issued	71	09/29/2003	Method and structure for producing high performance linear algebra routines using a hybrid full-packed storage format	GUNNELS, JOHN A.
<a href="#">10671934</a>	Not Issued	71	09/29/2003	Method and structure for producing high performance linear algebra routines using streaming	GUNNELS, JOHN A.
<a href="#">10671935</a>	Not Issued	30	09/29/2003	Method and structure for producing high performance linear algebra routines using a selectable one of six possible level 3 L1 kernel routines	GUNNELS, JOHN A.
<a href="#">10671937</a>	Not Issued	41	09/29/2003	Method and structure for producing high performance linear algebra routines using preloading of floating point registers	GUNNELS, JOHN A.
<a href="#">11035902</a>	Not Issued	30	01/14/2005	Method and structure for a generalized cache-register file interface with data restructuring methods for multiple cache levels and hardware pre-fetching	GUNNELS, JOHN A.
<a href="#">11035933</a>	Not Issued	30	01/14/2005	Method and structure for cache aware transposition via rectangular subsections	GUNNELS, JOHN A.
<a href="#">11039907</a>	Not Issued	30	01/24/2005	Method and structure for algorithmic overlap in parallel processing for exploitation when load imbalance is dynamic and predictable	GUNNELS, JOHN A.
<a href="#">11041935</a>	Not Issued	41	01/26/2005	Method and structure for high-performance linear algebra in the presence of limited outstanding miss slots	GUNNELS, JOHN A.
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				rectangular format data structure	
<a href="#">11050945</a>	Not Issued	30	02/07/2005	System and method for detecting a faulty object in a system	GUNNELS, JOHN A.
<a href="#">11052216</a>	Not Issued	41	02/08/2005	Method and structure for skewed block-cyclic distribution of lower-dimensional data arrays in higher-dimensional processor grids	GUNNELS, JOHN A.
<a href="#">11052877</a>	Not Issued	71	02/09/2005	System and method for algorithmic cache-bypass	GUNNELS, JOHN A.
<a href="#">11133254</a>	Not Issued	25	05/20/2005	Method and structure for improving processing efficiency in parallel processing machines for rectangular and triangular matrix routines	GUNNELS, JOHN A.
<a href="#">11328344</a>	Not Issued	30	01/09/2006	Method and structure for an improved data reformatting procedure	GUNNELS, JOHN A.
<a href="#">60377710</a>	Not Issued	159	05/03/2002	System and method for performing linear algebra	GUNNELS, JOHN A.

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